

HUNTERS POINT SHIPYARD
RESTORATION ADVISORY BOARD MEETING MINUTES
JULY 22, 2004

These minutes summarize discussions and presentations held during the Restoration Advisory Board (RAB) meeting on Thursday July 22, 2004. The meeting was held from 6:00 p.m. to 7:50 p.m. at Dago Mary's Restaurant, which is Building 916 at Hunters Point Shipyard (HPS). A verbatim transcript also was prepared for the meeting and is available in the Information Repository for HPS and on the Internet (at www.efds.w.navy.mil/Environmental/HuntersPoint.htm). The list of agenda topics is provided below. Attachment A provides a list of attendees. Attachment B includes action items that were requested or committed to by RAB members during the meeting. Attachment C includes all of the handouts from the RAB meeting on July 22, 2004.

AGENDA TOPICS

- Welcome, Introductions, and Agenda Review
- Approval of Meeting Minutes from RAB Meeting on June 24, 2004
- Navy Announcements
- Community Co-Chair Report and Other Announcements
- Subcommittee Reports
- Sequential Bioremediation at Remedial Unit C5 (Building 134)
- Rationale for Change of Parcel A Boundary and Status Update on Building 322
- Future Agenda Topics and Open Question and Answer Session
- Adjournment

MEETING HANDOUTS

- Agenda for RAB Meeting, July 22, 2004
- Meeting Minutes from RAB Meeting on June 24, 2004, including:
 - Action Items from RAB Meeting on June 24, 2004
 - Table 1, RAB Roll-Call Sheet
- Monthly Progress Report, June 2004
- PowerPoint™ Presentation, NAVFAC, Groundwater Cleanup using Bioremediation – A Treatability Study, July 22, 2004
- PowerPoint™ Presentation, NAVFAC, Parcel A FOST, July 22, 2004
- Meeting Minutes, HPS RAB, Membership/Bylaws and Community Outreach Subcommittee, July 14, 2004

- 1 • Meeting Minutes, HPS RAB, Lowman Radiological Subcommittee, June 23, 2004
- 2 • Handout, Pro Se Services, Bouchard Industrial Metals, Notification: Proposed Ship
- 3 Dismantling Facility, HPS, Dry Dock 4
- 4 • Handout, Community Window on the HPS Cleanup, Superfund Sites, and the Law: From
- 5 Discovery to Redevelopment
- 6 • Handout, Map of Former Locations of Buildings D-19 through D-23

7 **Welcome, Introductions, and Review of Agenda and Meeting Minutes**

8 Marsha Pendergrass, facilitator, called the meeting to order at 6:00 p.m. All participants in
9 attendance introduced themselves. Ms. Pendergrass began the meeting and asked if there were
10 any changes to the minutes for the meeting on June 24, 2004. Clifton Smith, meeting attendee,
11 commented that two questions posed by him during the zero-valent iron (ZVI) presentation at the
12 RAB meeting on June 24, 2004, were not included in the minutes. Ms. Pendergrass stated that
13 the meeting minutes contain condensed information and reminded everyone that a verbatim
14 transcript is also posted on the Navy's website. Ms. Pendergrass called for a motion to approve
15 the June 2004 meeting minutes, and the minutes were approved.

16 Ms. Pendergrass reviewed the action items contained in the June 2004 meeting minutes and
17 asked for a status of each item. Two items (Astoria Metals Company cranes at Dry Dock 4 and
18 the field trip to the ZVI site) were carried over to the action items for the July 2004 meeting.
19 The action item for the report to the Radiological and Health Risk Subcommittee on the
20 establishment of preliminary remediation goals (PRG) for manganese was completed to the
21 satisfaction of the RAB.

22 The action item on the field trip to the former ammunition bunker was not resolved to the
23 satisfaction of the RAB members. Lani Asher, RAB member, stated during the June 2004
24 meeting that she was not satisfied with the field trip to the concrete retaining wall and requested
25 a follow up field trip be conducted. Pat Brooks, Navy Lead Remedial Project Manager (RPM),
26 said he was not aware of any additional bunkers. Maurice Campbell, RAB Community
27 Co-Chair, stated that he had viewed videotape from a former shipyard worker about bunkers at
28 HPS and a newspaper article about children playing in the bunkers. Georgia Oliva, RAB
29 member, suggested that Mr. Campbell provide Mr. Brooks with the bunker information and then
30 a field trip to the bunkers could be arranged. Barbara Bushnell, RAB member, requested anyone
31 with information on bunkers in Parcel A to provide this information to the Navy. The action
32 item was amended, and the information will be reviewed during the August 2004 meeting.

33 **Navy and Community Co-Chair Reports/Other Announcements**

34 Mr. Brooks stated that he would be taking over for 2.5 weeks while Keith Forman (Navy RAB
35 Co-Chair) is on training duty. Mr. Brooks noted that a revised agenda had been sent to the RAB
36 members that reflected changes in the format of the meetings. Mr. Brooks noted that a
37 discussion occurred with Ms. Pendergrass and Mr. Campbell to change the format of the RAB
38 meetings to allow for a more equitable time distribution between the Navy and the subcommittee
39 reports. Ms. Pendergrass noted that the minutes from the subcommittee meetings will be added
40 to the final meeting minutes on the Navy's website, in the Administrative Record, and in the
41 Information Repository.

1 Mr. Campbell added that only one question per RAB member will be permitted during Navy
2 presentations to allow additional time for community input during RAB meetings. Mr. Campbell
3 noted that further discussions can take place in the subcommittee meetings. Mr. Campbell then
4 requested the return of a map index showing the layout of HPS. A Navy subcontractor (Tetra
5 Tech FW, Inc.) had removed the map from Building 101 to photocopy it. Mr. Campbell also
6 noted an information handout from Pro Se Services, Bouchard Industrial Metals, on a proposed
7 ship-breaking operation on Parcel 4. While this proposal has not yet been reviewed by the Navy,
8 the community is encouraged to begin considering the proposal.

9 Karen Pierce, RAB member, asked that the policy regarding one question per RAB member be
10 reconsidered because follow-up questions may be necessary due to various levels of expertise
11 among the RAB members. Ms. Pierce stated that follow-up questions would help all RAB
12 members to better understand the information being presented and to become better informed
13 about issues at HPS.

14 **Reminder: The next RAB meeting will be held August 26, 2004, from 6:00 to 8:00 p.m., at**
15 **Dago Mary's Restaurant, Building 916 at HPS.**

16 Subcommittee Updates

17 Membership, Bylaws, and Community Outreach Subcommittee (MBCO) (Melita Rines, Leader)

18 Ms. Rines noted that the San Francisco Police Department (SFPD) attended the MBCO meeting
19 but did make available for RAB review the terms of their lease for Building 606 at HPS. The
20 lease is in the process of being renegotiated between the City and County of San Francisco (City)
21 and the Navy. Currently the Navy is examining the market value of property before finalizing
22 the renegotiation of the City's lease of Building 606. Ms. Rines stated that a vote on the bylaws
23 will take place at the RAB meeting in August 2004. The proposed bylaws change the time
24 period for absences from the calendar year to a 12-month period. As a result, RAB members
25 will not be permitted to miss more than four meetings in 12 months. Once passed by the RAB in
26 September 2004, the revised bylaws will go into effect. Barbara Bushnell, RAB member,
27 recommended keeping the absence rules in bylaws per calendar year to make it easier to track.
28 Ms. Pendergrass requested that the proposed changes be sent to the RAB members for review
29 before the vote next month. Carolyn Hunter, SulTech, agreed to mail them.

30 The next meeting of the Membership, Bylaws, and Community Outreach Subcommittee will be
31 at 6:30 p.m. on August 11, 2004, at the Anna E. Waden Branch Library, located at 5075 Third
32 Street. **Follow Up: The next MBCO subcommittee meeting will be moved due to the*
33 *unavailability of the Anna Waden Library Community Room. The next MBCO subcommittee*
34 *meeting will take place on August 11, 2004 at the Window on the Shipyard Office at 4634 Third*
35 *Street.*

36 Technical Review Subcommittee (Lea Loizos, Leader)

37 Lea Loizos, RAB member, said the subcommittee had not met in June 2004. Ms. Loizos was
38 considering having the Navy give a technical presentation during future meetings of the
39 Technical Review Subcommittee.

40 The next meeting of the Technical Review Subcommittee will be at 6:00 p.m. on August 18,
41 2004, at the Community Window on HPS, located at 4634 Third Street.

42 Lowman Radiological Subcommittee of the HPS RAB (Ahimsa Sumchai, Leader)

1 Dr. Ahimsa Sumchai, RAB member, thanked the members for attending the subcommittee
2 meeting. Dr. Sumchai stated that Dr. Dan Stralka from the U.S. Environmental Protection
3 Agency's (EPA) Superfund division gave a presentation on manganese, which included a
4 discussion on sources, background information, and the establishment of PRGs for manganese.
5 Dr. Sumchai said that manganese has been detected at elevated concentrations at HPS, although
6 it is unknown if these concentrations are naturally occurring. Dr. Sumchai continued that
7 manganese is a natural component in the geology of HPS and is a product of the combustion of
8 fossil fuels. Dr. Stralka discussed the establishment of the PRGs to protect human health,
9 including the most sensitive populations. Previous studies evaluated in the establishment of the
10 PRGs looked at manganese in drinking water and at the effect on human health from inhalation
11 by mine workers, including neurological disorders. Dr. Sumchai stated that the subcommittee
12 would also address the reuse plans and would table the discussion for a full RAB presentation.

13 Dr. Sumchai stated that the RAB should revisit the concern that a Naval Radiological Defense
14 Laboratory (NRDL) laboratory was located in the D-series buildings. Dr. Sumchai expressed
15 concerns about Building 103, which was identified in the Historical Radiological Assessment
16 (HRA) as a personnel decontamination center during World War II and is currently leased to
17 local artists. She recommended that this building should be retained for further evaluation based
18 on the final Environmental Impact Report for Phase I development at Parcels A and B. Laurie
19 Lowman, Naval Sea Systems Command, Radiological Affairs Support Office (RASO), will
20 address some of these issues at her presentation during the August 2004 meeting.

21 Dr. Sumchai recommended that Dr. Stralka give a presentation on manganese to the full RAB, if
22 the group is interested.

23 The next meeting of the Lowman Radiological Subcommittee of the HPS RAB will be from 3 to
24 5:00 p.m. on August 25, 2004, at The Greenhouse, located at 4919 Third Street.

25 Economic Development Subcommittee (Maurice Campbell, Leader)

26 Mr. Campbell did not have an Economic Development Subcommittee report for June 2004. The
27 year-to-date and quarter-to-date financial information, as well as the community's portion of the
28 cleanup of HPS, will be discussed during the next meeting.

29 The next meeting of the Economic Development Subcommittee will be at 2:30 p.m. on August
30 10, 2004, at the Young Community Developers, located at 1715 Yosemite Avenue.

31 **Results of a Study on Groundwater Cleanup using Bioremediation**

32 Glenn Christensen, Navy RPM, said this presentation would provide the results of a treatability
33 study on groundwater cleanup using bioremediation. Mr. Christensen began by giving the
34 background of Building 134. This building was a former machine shop on Parcel C. Building
35 134 contained an oil/water separator (OWS) and a solvent degreaser pit that were removed. Soil
36 and groundwater at Building 134 are contaminated with solvents. The degreaser pit has been
37 over-excavated to remove all contaminated soil above the water table. The purpose of this study
38 was to evaluate the potential of enhanced bioremediation to treat contaminated water at this
39 building and also other areas of HPS.

40 Mr. Christensen described the process of in situ bioremediation, which destroys contaminants in-
41 place with naturally occurring bacteria in the aquifer. After the bacteria are provided a food

1 source, they eat the contaminants, breaking them down into nontoxic chemicals. This process is
2 similar to other biological processes, such as making wine or beer.

3 Mr. Christensen showed a map of the plume within Building 134. The source of the
4 contamination is the former degreaser pit, which has been excavated and backfilled. An
5 extraction well was installed in the former OWS excavation area to control groundwater
6 movement. Mr. Christensen showed pictures displaying the installation of the well vaults. The
7 monitoring wells are 4-inch flush-mounted wells located outside the building.

8 Mr. Christensen stated that the bioremediation study at Building 134 includes the following two
9 steps: (1) bioremediation without oxygen (anaerobic) followed by (2) bioremediation in the
10 presence of oxygen (aerobic). Some contaminants, such as tetrachloroethene (PCE) and
11 trichloroethene (TCE), degrade without oxygen or under anaerobic conditions. Other
12 contaminants, such as benzene, petroleum hydrocarbons, and semivolatile organic compounds,
13 degrade with oxygen or aerobic conditions. Still other contaminants, such as vinyl chloride and
14 chlorobenzene, can degrade under aerobic or anaerobic conditions.

15 Bioremediation creates favorable conditions for the breakdown of contaminants
16 (biodegradation). Stage 1, anaerobic bioremediation, began on April 14, 2004, at Building 134,
17 and it is expected to continue through November 2004. The second stage, aerobic degradation, is
18 scheduled to begin in December 2004 and to continue through April 2005. The first stage,
19 anaerobic breakdown of contaminants, is already occurring. PCE and TCE are degrading into
20 vinyl chloride and ethene. Ethene is nontoxic, and detected concentrations are far below the
21 lower explosive limit (LEL). The LEL for ethene is 30,000 parts per million (ppm). The highest
22 concentration of ethane detected is 7 ppm.

23 Ms. Pierce asked for a further explanation on anaerobic bioremediation. Mr. Christensen
24 explained that the environment is currently anaerobic. Groundwater is pumped out of the
25 aquifer, and sodium lactate is added to the water and then reinjected into the aquifer. Mr. Brooks
26 added that petroleum hydrocarbons from an adjacent site have degraded in the aquifer and used
27 up the oxygen in the groundwater, thereby creating favorable anaerobic conditions.

28 Mr. Christensen explained the aerobic biodegradation process. During this process, oxygen is
29 added to the aquifer. A different type of bacteria uses oxygen for respiration, and these bacteria
30 complete the destruction of the remaining contaminants. The byproducts of this process are
31 carbon dioxide, water, and chloride ions.

32 Mr. Christensen showed a picture of the equipment inside of Building 134, as well as the
33 excavation and treatment zone. The depth to groundwater is about 8 feet below ground surface.
34 The walls of the building act as a containment cell. The soils are made of silty sands and silty
35 clay. Several monitoring wells were installed outside the building. This study is treating the
36 upper aquifer, known as the A1 Zone, but testing is also being performed on the lower aquifer to
37 ensure that no vertical migration of contaminants is occurring.

38 Mr. Christensen showed three graphs of analytical results for groundwater samples from each
39 well. Six samples have been collected to date. The trends in these three wells indicate that
40 breakdown of PCE and TCE is already occurring, with an increase in vinyl chloride
41 concentrations. The process is also pulling contaminants from the soil. Mr. Christensen then
42 asked for questions.

1 Dr. Sumchai expressed concerns regarding the volatilization of byproducts, particularly at the
2 groundwater outfall into the Bay. She stated that carbon dioxide is a global warming gas and
3 therefore this is a concern for a community with respiratory problems. Another concern is the
4 formation of ethene and chloride. Dr. Sumchai also asked if air monitoring data were being
5 collected. Mr. Christensen responded that air monitoring was conducted at all times for the
6 health and safety of workers.

7 Ms. Rines asked if the bacteria used in the aerobic biodegradation process are also naturally
8 occurring and if so, then why doesn't the process occur naturally. Mr. Christensen responded
9 that while it does occur naturally, this process speeds it up.

10 Mr. Campbell inquired about the effect of methane and ethane for global warming. Mr. Brooks
11 responded that activities conducted during the treatability study or methane released from Parcel
12 E would have no effect on the atmosphere.

13 Raymond Tompkins, RAB member, inquired about the effects of sodium lactate on the bacteria.
14 Mr. Brooks responded that the bacteria reproduce, grow, and eat the contamination as a food
15 source.

16 Ms. Asher asked if this process had been used at other bases. Mr. Christensen responded that the
17 Navy's contractor, Shaw Environmental & Infrastructure, Inc., had successfully used it at Point
18 Mugu and Treasure Island. Ms. Asher then asked if there were other contaminants in the aquifer
19 that were not being eaten by the bacteria. Mr. Christensen responded that this study was looking
20 at the contaminants with the highest concentrations, notably PCE and TCE, although other
21 contaminants are degraded aerobically and anaerobically. He stated that the work plans for this
22 study have been submitted to and reviewed by both the RAB and the BCT.

23 Frank Niccoli, meeting attendee, stated that an increase in anaerobic biodegradation created a
24 decrease in aerobic biodegradation in the aquifer. He asked if oxygen was injected into the wells
25 for the aerobic biodegradation process, and Mr. Christensen responded that it was.

26 Clifton Smith, meeting attendee, inquired into the baseline conditions used for this study. Mr.
27 Christensen responded that groundwater samples were collected previously from monitoring
28 wells. Therefore, the Navy already had knowledge of PCE and TCE contamination at HPS. The
29 Navy tested the groundwater samples to ensure a sufficient colony of the bacteria existed in the
30 area. The Navy also measured groundwater parameters, including dissolved oxygen and
31 temperature. Mr. Smith inquired if this study was based on published research, and Mr.
32 Christensen responded that it was, including contractor knowledge of the process and previous
33 data collected at HPS.

34 Ms. Loizos asked why it was necessary to circulate the groundwater. Mr. Christensen responded
35 that this process ensured that sodium lactate was distributed evenly in the well. The circulation
36 is turned off when sodium lactate is detected in the extraction well.

37 Ms. Oliva inquired into byproducts of the biodegradation process and expressed concerns about
38 the explosive properties of ethene. Mr. Christensen stated that the maximum concentration that
39 ethene will reach is 7 ppm, which is well below the LEL.

40 Chris Hanif, RAB member, reminded the Navy to explain terms and acronyms used in the
41 presentations. Dr. Sumchai stated that a list of acronyms was provided during past RAB
42 meetings and suggested this would be helpful for the RAB members.

Status of Parcel A FOST

Mr. Brooks stated that before he addressed the Parcel A FOST and Building 322, he wanted to discuss the boundary changes of Parcel A. Mr. Brooks stated that the Navy's main objective is to clean up the parcels and transfer them to the City. Mr. Brooks stated that the boundary of Parcel A has been redrawn to exclude Buildings 813 and 819. Building 813 was an NRDL building that is a potential source of strontium from a leak in test equipment. Building 819 was a sewage pump station that could have received radioactive waste from sewage pump lines. The draft final HRA identified these buildings as affected, so they were removed from Parcel A to allow for its transfer to the City.

Mr. Brooks began his discussion of Building 322 by showing a picture of the building, which has since been demolished. The Navy is currently working with EPA and the California Department of Health Services (DHS) to release the building so Parcel A can be transferred. Building 322 is a former guard shack and NRDL building that was used as a storage area for instruments. It was formerly located on Parcel D and subsequently moved to Parcel A. The Navy conducted a radiation survey of the entire building. Based on the survey results, EPA granted approval to demolish the building and it was sent to a landfill. A radiation survey was then conducted on the remaining concrete slab. No contamination was found, and the slab was subsequently broken up.

On June 30, 2004, EPA conducted an independent radiological survey on the footprint of the building. This survey found no radiation at the site at concentrations above background. EPA used two instruments for the evaluation: a gamma scintillation probe and a Exploranium GR130 Mini Spectrometer. A nearby grassy area was also evaluated as a baseline. The EPA inspection concluded that no radiological contamination is affecting the environment at HPS due to activities previously conducted at Building 322 and that further radiological investigation of the site is not warranted. Based on EPA's conclusions, the site of former Building 322 is eligible for release under unrestricted reuse.

Mr. Brooks stated that the Navy's next step would be to compile the survey report and submit the report to the DHS following a review by Laurie Lowman, RASO. The Navy will prepare the Draft Final Finding of Suitability to Transfer (FOST), Revision 3, which will include the letters of free release for the site. The Draft Final FOST, Revision 3, will have a 30-day comment period.

Ms. Oliva asked which instruments were used to evaluate the building materials. Mr. Brooks replied that the same instruments and analysis were conducted on all materials of the building. Ms. Oliva also asked when the report would be finished. Mr. Brooks responded that he expected it to be completed the following Tuesday, and that he would provide copies of the report to any interested RAB member.

Ms. Pierce stated that there are two sites for former Building 322 and she wanted to ensure that the original site was adequately addressed in Parcel D. Mr. Brooks stated that in the draft final HRA, the site of Building 322 on Parcel D is known as the "former site of Building 322" and a survey is recommended for that site.

Dr. Sumchai asked why the building had been demolished. Mr. Brooks responded that the building needed to be demolished in order to survey the concrete slab and soil underneath the building. Dr. Sumchai then inquired into the size of Parcel A and asked about the background levels of radiation used. Mr. Brooks responded that background levels were measured at a

1 nearby grassy area. Dr. Sumchai stated that 20,000 counts per minute appeared to be a high
2 number. She inquired if any gamma rays had been detected at the site. Mr. Brooks stated that he
3 would need to review the report.

4 Mr. Campbell stated that he would like more information on the background level of radiation at
5 HPS. Mr. Brooks stated that background levels vary across HPS, but a range could probably be
6 provided. Michael Work, EPA, will check if background levels are available for the San
7 Francisco area from EPA.

8 **Future Agenda Topics**

9 Aside from the standard agenda topics and subcommittee updates, no additional agenda topics
10 were suggested.

11 **Other Discussions and Topics**

12 The items below also were discussed at the July 2004 meeting. A verbatim account of these
13 discussions is included in the Information Repository for HPS and may be found on the Internet
14 at www.efds.w.navy.mil/Environmental/HuntersPoint.htm.

- 15 • Mr. Hanif stated that a training program for hazardous waste by Young Community
16 Developers will take place beginning on September 1, 2004. At the completion of this
17 training, Mr. Hanif will provide an informational presentation on the terminology of
18 hazardous training programs at an upcoming meeting, which will be open to RAB
19 members. Mr. Hanif will provide the dates for the training orientation and information to
20 the RAB.
- 21 • Dr. Sumchai stated that an invitation had been extended to Gerald Vincent from the U.S.
22 Army Corps of Engineers to give a presentation on formerly used defense sites. Dr.
23 Sumchai will provide additional information on this schedule because Mr. Vincent is not
24 available for the August meeting.
- 25 • Don Capobres from the San Francisco Redevelopment Agency (SFRA) stated that
26 August 13, 2004, will be his last day with the agency. Mr. Capobres will coordinate with
27 Mr. Campbell to introduce the SFRA's replacement to the RAB. He thanked the RAB
28 members for their involvement the past few years.
- 29 • Dr. Sumchai stated that the Anna E. Waden Branch Library is an important resource to
30 the community, and requested that it be stocked with the same documents as the main
31 library. Mr. Brooks replied that the Anna E. Waden Branch Library does not have
32 enough space available to fit all the Navy documents. Mr. Smith suggested the Navy put
33 the administrative records on compact disc and then provide these to the library. The
34 library has computers available where the documents could be viewed. Mr. Brooks
35 agreed to look into providing compact discs of Navy documents for the Anna Waden
36 Library.
- 37 • Mr. Campbell stated that future RAB meetings will focus on the subcommittees and their
38 recommendations, and reminded everyone to participate in these meetings.

39 There were no further announcements. The meeting was adjourned at 7:50 p.m.

1 **Reminder: The next RAB meeting will be held from 6:00 to 8:00 P.M., Thursday evening,**
2 **on August 26, 2004 at Dago Mary's Restaurant, Building 916 at HPS.**

**ATTACHMENT A
JULY 22, 2004 - RAB MEETING
LIST OF ATTENDEES**

Name	Association
1. John Adams	SulTech
2. Lani Asher	RAB member, CBE, CFC
3. Pat Brooks	Navy, Lead Remedial Project Manager
4. Amy Brownell	RAB member, SF Dept of Public Health
5. Barbara Bushnell	ROSES, Silverview Terrace Homeowners Association
6. Maurice Campbell	RAB Community Co-chair , CFC, New California Media
7. Don Capobres	San Francisco Redevelopment Agency
8. Shirley Cherry	SulTech
9. Glenn Christensen	Navy, Remedial Project Manager
10. Tommie Jean Damrel	SulTech
11. Steve Dixon	Young Community Developers
12. Jennifer Gibson	SulTech
13. Chris Hanif	RAB member, Young Community Developers
14. Carolyn Hunter	SulTech
15. Jackie Lane	EPA, Community Involvement
16. Lea Loizos	RAB member, ARC Ecology
17. James Morrison	RAB member, Environmental Technology, ROSES
18. Christine M. Niccoli	Niccoli Reporting, court reporter
19. Frank Niccoli	Niccoli Reporting
20. Georgia Oliva	RAB member, CBE, CCA member
21. Ralph Pearce	Navy, Remedial Project Manager
22. Marsha Pendergrass	Pendergrass & Associates
23. Karen Pierce	RAB member, BVHP Democratic Club, HEAP
24. Jim Ponton	RAB member, Regional Water Quality Control Board
25. Melita Rines	RAB member, India Basin Neighborhood Association
26. Dennis Robinson	Shaw Environmental & Infrastructure, Inc
27. Robert Server	Pendergrass & Associates
28. Clifton Smith	C.J. Smith & Associates, Eagle Environmental Construction
29. Peter Stroganoff	Navy, ROICC Office
30. Ahimsa Sumchai	RAB member, BVHP Health and Environmental Resource Center
31. Keith Tisdell	RAB member, resident
32. Raymond Tompkins	RAB member, BVHP Coalition on the Environment
33. Julia Vetromile	SulTech
34. Michael Work	RAB member, US EPA
35. Leilani Wright	RAB member, JRM Associates

ATTACHMENT B
JULY 22, 2004 - RAB MEETING
ACTION ITEMS

Item No.	Action Item	Due Date	Person/Agency Committing to Action Item	Resolution Status
Carry-Over Items				
1.	Navy to notify David Terzian and Navy Caretaker Site Office prior to removal of Astoria Metals Company's cranes at Dry Dock 4	To be determined	Navy/ Keith Forman	
2.	[Amended from June Action Item] RAB members with information on potential storage bunkers to provide this information to the Navy. The Navy will then set up a field trip to look at those areas identified by the RAB.	August RAB	RAB members	
3.	Navy to arrange a field trip for RAB to view the site where zero-valent iron will be used.	To be determined	Navy/Pat Brooks	Field work will begin mid-August; because it may begin before the next RAB meeting, the Navy will invite the RAB and the BCT via e-mail instead of setting a date at the August RAB meeting
New Items				
1.	EPA to provide information on measured levels of local background radiation	To be determined	EPA/Michael Work	
2.	Navy to check on the return of the map index to Building 101	To be determined	Navy/Pat Brooks	
3.	SulTech to mail copies of proposed membership bylaws to RAB members	August RAB	SulTech/Carolyn Hunter	This action item has been completed
4.	Navy to provide interested RAB members with a copy of the Draft Final FOST, Revision 3	To be determined	Navy/Pat Brooks	
5.	Navy to assess the feasibility of providing Anna E. Waden Branch Library with HPS documents on compact disc	To be determined	Navy/Pat Brooks	

**HUNTERS POINT SHIPYARD
RESTORATION ADVISORY BOARD (RAB) - MEETING AGENDA
THURSDAY, 22 JULY 2004**

Day/Date:

Thursday – 22 July 2004

Time:

6:00 p.m. to 8:05 p.m.

Location:

**Dago Mary's Restaurant
Hunters Point Shipyard
Building # 916
San Francisco**

Facilitator:

Marsha Pendergrass

Time	Topic	Leader
6:00 p.m. – 6:05 p.m.	Welcome/Introductions/Agenda Review	Marsha Pendergrass <i>Facilitator</i>
6:05 p.m. – 6:15 p.m.	Approval of Meeting Minutes from 24 June 2004 RAB Meeting <ul style="list-style-type: none"> Action Items 	Marsha Pendergrass
6:15 p.m. – 6:25 p.m.	Navy Announcements	Pat Brooks <i>Navy Lead Remedial Project Manager</i>
	Community Co-chair Report/Other Announcements	Maurice Campbell <i>Community Co-chair</i>
6:25 p.m. – 6:55 p.m.	Subcommittee Reports	Subcommittee Leaders
6:55 p.m. – 7:05 p.m.	BREAK	
7:05 p.m. – 7:40 p.m.	Sequential Bioremediation at Remedial Unit RU-C5 (Building 134)	Glenn Christensen <i>Remedial Project Manager</i>
7:40 p.m. – 7:55 p.m.	Parcel A Boundary Change Rationale and Status Update on Building 322	Pat Brooks <i>Navy Lead Remedial Project Manager</i>
7:55 p.m. – 8:05 p.m.	Future Agenda Topics/ Open Question & Answer	Marsha Pendergrass
8:05 p.m.	Adjournment	Marsha Pendergrass

HPS web site:

<http://www.efds.w.navy.mil/Environmental/HuntersPoint.htm>

RAB Navy Contact:

Mr. Keith Forman (619) 532-0913 or (415) 308-1458

HUNTERS POINT SHIPYARD MONTHLY PROGRESS REPORT

JUNE 2004

This monthly progress report (MPR) summarizes environmental restoration activities conducted by the Navy at Hunters Point Shipyard (HPS) during June 2004. This MPR is prepared in accordance with the HPS Federal Facility Agreement, Section 6.6. The MPR is presented in three sections: Section 1, Parcel Updates, summarizes key activities at each parcel completed during the past month and planned for the upcoming 2 months; Section 2, Schedule, identifies submittals, meetings, and field activities completed during the past month and planned for the upcoming 2 months; Section 3, Other, is intended for special announcements, changes in personnel, basewide issues, or other topics not included in Sections 1 or 2.

1.0 PARCEL UPDATES

PARCEL B JUNE 2004 ACTIVITIES

- Continued post-injection groundwater monitoring for the Ferox injection treatability study at Building 123.
- Continued preparation of a construction summary report (CSR) addendum that will present information for excavations not included in the draft CSR.
- Conducted April – June 2004 quarterly groundwater sampling.
- Continued evaluation of human health and ecological risk assessment methodologies. Continued preparation of technical memorandum to support the record of decision (ROD) amendment (TMSRA).
- Began preparation of the final corrective action plan (CAP) addendum with response to comments (RTC).

PARCEL B JULY 2004 – AUGUST 2004 ACTIVITIES

- Submit final work plan with RTCs for follow-on soil vapor extraction (SVE) treatability study work plan. Begin implementation of SVE work plan.
- Prepare and submit final annual/October – December 2003 quarterly groundwater monitoring report with RTCs. Prepare and submit draft January – March 2004 quarterly groundwater monitoring data package and field summary report. Begin preparation of final January – March 2004 quarterly groundwater monitoring report with RTCs. Begin preparation of April – June 2004 quarterly groundwater monitoring report. Begin conducting July – September 2004 quarterly groundwater sampling.

- Continue preparation of CSR addendum.
- Continue preparation of TMSRA. Conduct a storyboard meeting with regulatory agencies to discuss TMSRA.
- Continue preparation of the final CAP addendum with RTCs.

PARCEL C JUNE 2004 ACTIVITIES

- Began anaerobic injections and continued groundwater circulation for sequential anaerobic/aerobic bioremediation treatability study in Building 134.
- Submitted draft work plan for follow-on zero valent iron (ZVI) treatability study at Building 272.
- Submitted final Dry Dock 4 water sampling work plan with RTCs.
- Began preparation of the Parcel C Draft Feasibility Study (FS).
- Began preparation of the final waste consolidation report.

PARCEL C JULY 2004 – AUGUST 2004 ACTIVITIES

- Perform groundwater sampling per basewide groundwater monitoring SAP.
- Monitor groundwater for evidence of biodegradation as part of the sequential anaerobic/aerobic bioremediation treatability study in Building 134.
- Prepare and submit final work plan for sequential anaerobic/aerobic bioremediation treatability study in Building 134 with RTCs.
- Implement Dry Dock 4 water sampling work plan. Prepare draft summary report.
- Continue preparation of the Draft FS.
- Prepare and submit RTCs and supplemental information for underground storage tank (UST) closure request and documentation, pending receipt and resolution of agency comments.
- Prepare and submit final waste consolidation report.
- Prepare final work plan with RTCs for follow-on ZVI treatability study at Building 272.

PARCEL D JUNE 2004 ACTIVITIES

- Continued to finalize action memorandum and workplan with RTCs for the time-critical removal action (TCRA).

PARCEL D JULY 2004 – AUGUST 2004 ACTIVITIES

- Prepare and submit final TCRA action memorandum and work plan with RTCs.
- Complete field work for Parcel D TCRA.
- Perform groundwater sampling per the basewide groundwater monitoring SAP.
- Begin preparation of the Draft Final FS.

PARCEL E JUNE 2004 ACTIVITIES

- Continued monthly gas monitoring at the industrial landfill. Submitted final April 2004 landfill gas monitoring report. Continued preparation of May 2004 landfill gas monitoring report.
- Continued preparation of annual report for landfill storm water discharge management program (SWDMP).
- Continued preparation of Parcel E-2 (landfill) Remedial Investigation/Feasibility Study (RI/FS)
- Continued operation of groundwater extraction system at industrial landfill.
- Submitted final metal reef/slag removal action site characterization work plan with RTCs. Began implementation of work plan.
- Began preparation of Investigation Remediation (IR) Site 02 removal action work plan (to be performed under the basewide radiation removal action).
- Continued preparation of action memorandum and work plan for removal of soil containing polychlorinated biphenyls (PCB).
- Performed groundwater sampling per basewide groundwater monitoring SAP.

PARCEL E JULY 2004 – AUGUST 2004 ACTIVITIES

- Perform groundwater sampling per basewide groundwater monitoring SAP.
- Continue preparation of RTCs for draft landfill extent report.

- Continue preparation of RTCs for draft landfill cap removal action closeout report.
- Continue preparation of RTCs for draft landfill liquefaction potential report.
- Continue preparation of draft shoreline characterization technical memorandum.
- Continue preparation of IR-02 removal action work plan (to be performed under the basewide radiation removal action).
- Continue preparation of action memorandum and work plan for removal of soil containing PCBs.
- Continue preparation of final landfill gas closeout report, pending receipt and resolution of agency comments.
- Record monthly storm water visual observations at the industrial landfill during rain events (if any). Submit annual report for landfill stormwater discharge management plan.
- Prepare and submit final waste consolidation report.
- Continue monthly gas monitoring at the industrial landfill. Prepare and submit final May 2004 and June 2004 landfill gas monitoring reports. Begin preparation of July 2004 and August 2004 landfill gas monitoring reports. Prepare and submit final January 2004 landfill gas monitoring report and final interim landfill gas monitoring and control plan.
- Continue preparation of the data summary report for the standard data gaps investigation.
- Continue implementation of the final metal reef/slag removal action site characterization work plan. Begin preparation of the metal reef/slag removal action implementation work plan.
- Continue preparation of Parcel E-2 (landfill) RI/FS.
- Continue operation of groundwater extraction system at industrial landfill.

PARCEL F JUNE 2004 ACTIVITIES

- Continued preparation of draft final validation study report with RTCs.

PARCEL F JULY 2004 – AUGUST 2004 ACTIVITIES

- Prepare and submit draft final validation study report with RTCs.

2.0 SCHEDULE

This section presents meetings and deliverables conducted and planned during this reporting period.

Activities Conducted	Date
Submitted final April 2004 landfill gas monthly monitoring report	June 3, 2004
Submitted draft work plan for follow-on ZVI treatability study at Building 272	June 14, 2004
BCT basewide groundwater monitoring plan SAP technical meeting	June 15, 2004
BCT monthly meeting	June 23, 2004
RAB meeting	June 24, 2004
Submitted final metal reef/slag removal action site characterization work plan with RTCs	June 25, 2004
Submitted final work plan for sequential anaerobic/aerobic treatability study at Building 134	June 25, 2004
Submitted final Dry Dock 4 water sampling work plan with RTCs	June 25, 2004

Activities Planned	Date
Parcel C feasibility study scoping meeting	July 1, 2004
Submit annual report for landfill SWDMP	July 1, 2004
Submit May 2004 Monthly Landfill Gas Monitoring Report	July 1, 2004
Submit draft Parcels C, D, and E CAP (Revision 2)	July 2, 2004
Submit final Parcels C and E waste consolidation summary reports	July 6, 2004
Submit final follow-on SVE work plan with RTCs	July 7, 2004
Parcel B TMSRA storyboard meeting	July 14, 2004
Submit January to March 2004 groundwater monitoring data package/field summary report	July 14, 2004
BCT monthly meeting	July 21, 2004
RAB meeting	July 22, 2004
Submit final annual/October – December 2003 quarterly groundwater monitoring report	July 22, 2004
Submit June 2004 Monthly Landfill Gas Monitoring Report	August 5, 2004
Submit Final January 2004 Monthly Gas Monitoring Plan with RTCs	August 6, 2004
Submit Final Groundwater Monitoring Program SAP with RTCs	August 9, 2004
Submit Final Interim Landfill Gas MCP	August 13, 2004
Submit Final HRA Volume II with RTCs	August 17, 2004
BCT meeting	August 24, 2004
PCB Removal Action Public Meeting	August 25, 2004
RAB meeting	August 26, 2004
Submit IR-02 Removal Action Workplan	August 26, 2004

Activities Planned	Date
Submit Parcel C UST RTCs and Supplemental Information	August 31, 2004

Note:

* Document submittal pending receipt and/or resolution of BCT comments

3.0 OTHER

- The Navy submitted the draft final HRA volume II on February 25, 2004. The final HRA is scheduled for submittal in August 2004, pending receipt and resolution of agency and public comments.
- The Navy submitted the draft basewide groundwater monitoring program SAP on December 18, 2003. The final SAP is planned for submittal in August 2004, pending receipt and resolution of agency comments. Additional monitoring wells were installed and the first quarter of groundwater sampling at Parcel B completed in March 2004. The second quarter of basewide groundwater sampling began in June 2004. The January to March 2004 groundwater monitoring report is scheduled for submittal on July 14, 2004.
- The Navy submitted the draft final Parcel A Finding of Suitability to Transfer (FOST), Revision 2 on March 19, 2004. Additional radiological surveys were completed at Building 322. The structure and slab foundation at Building 322 were removed during the week of June 21, 2004. Soil beneath the slab was then surveyed and a Final Status Survey Report is in preparation. The Navy is planning to submit the draft final FOST, Revision 3 in August 2004.

Groundwater Cleanup using Bioremediation - A Treatability Study

**Hunters Point Shipyard
RAB Meeting
July 22, 2004**

Introduction



- **Building 134 was the marine machine shop**
- **It had a solvent degreaser pit and oil/water separator**
- **Soil and groundwater at Building 134 are contaminated with solvents**

Purpose of Bioremediation Study

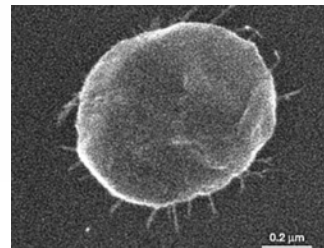


- Existing monitoring data suggest chemicals are biologically degrading
- Excavation conducted to install large diameter wells and also removed the degreaser pit, the oil/water separator and soil below
- Study proposed to evaluate enhanced bioremediation to treat contaminated groundwater

In Situ Bioremediation Process



- In Situ Bioremediation is a process that destroys contaminants in place with bacteria
- Microorganisms (bacteria) change contaminants from toxic to non-toxic chemicals
- Process similar to other biological processes such as making wine/ beer.



Study Area



5

Hunters Point Shipyard/July 2004 BCT Meeting

Outside of Building 134-Study Area



Extraction well installed in former oil/water separator excavation area

6

Hunters Point Shipyard/July 2004 BCT Meeting

Test Area Preparation



7

Hunters Point Shipyard/July, 2004 BCT Meeting

Installing well vaults



8

Hunters Point Shipyard/July, 2004 BCT Meeting

Sequential Anaerobic - Aerobic Bioremediation



- **Some contaminants degrade without oxygen (anaerobic conditions)**
 - Tetrachloroethene (PCE)
 - Trichlorethene (TCE)

- **Other contaminants degrade with oxygen (aerobic conditions)**
 - Benzene
 - Petroleum hydrocarbons
 - Semivolatile hydrocarbons

- **Some contaminants don't care**
 - Vinyl chloride
 - Chlorobenzene

Bioremediation Process



- **Bioremediation Process – Create favorable conditions for biodegradation of contaminants**

- **Stage 1 – Anaerobic Bioremediation – April 14 to Nov 28. 2004**

- **Stage 2 – Aerobic Bioremediation – December 2004 to April 2005**

Anaerobic Biodegradation Process



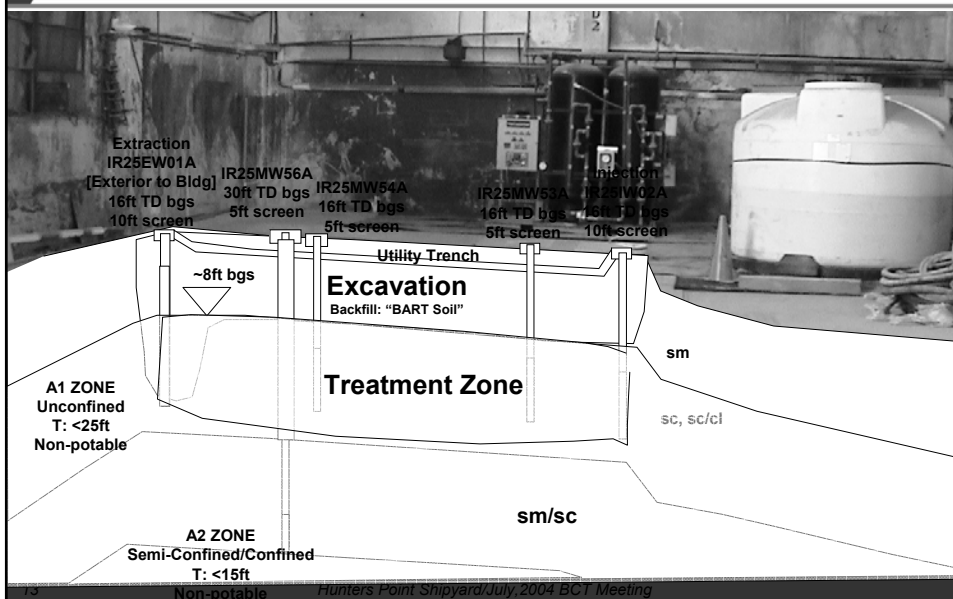
- **Conduct anaerobic biodegradation first**
 - Anaerobic biodegradation already occurring
 - PCE degrading bacteria confirmed present
- **Inject food (sodium lactate) into aquifer that bacteria use to degrade contaminants.**
- **Sequentially degrade PCE to TCE to DCE to VC to Ethene**
- **Ethene is non-toxic and concentrations are far below the lower explosive limit**

Aerobic Biodegradation Process

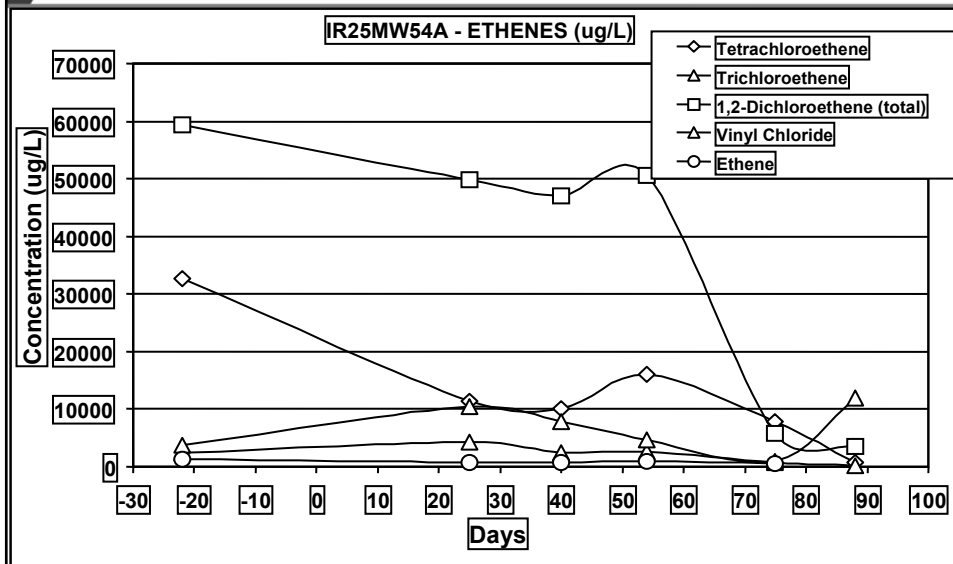


- **Add oxygen to contaminated aquifer.**
- **A different type of bacteria use oxygen for respiration**
- **These bacteria complete the destruction of remaining contaminants**
- **Contaminants are degraded to non-toxic carbon dioxide, water and chloride ions.**

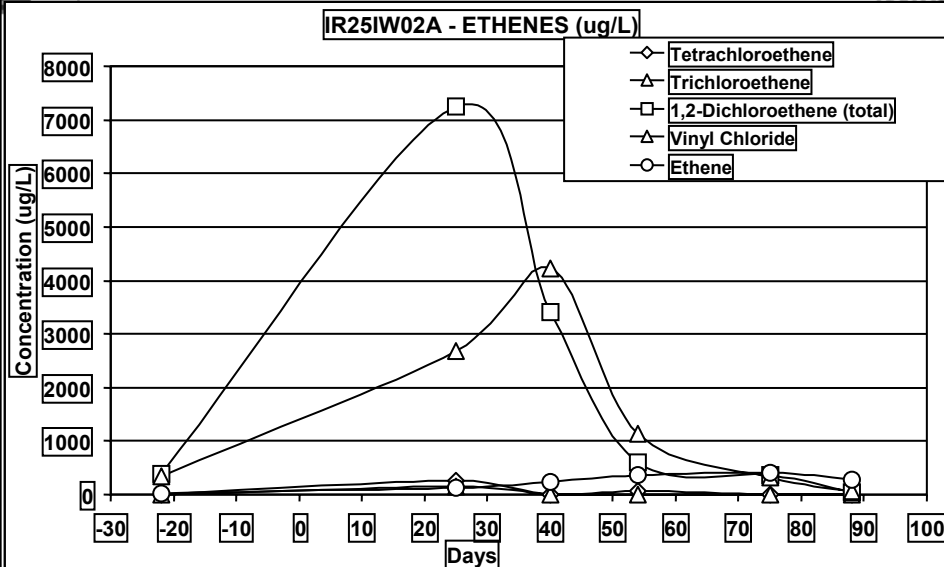
In Situ Distribution / Monitoring Design



Groundwater Analytical Results March 25 to July 12, 2004



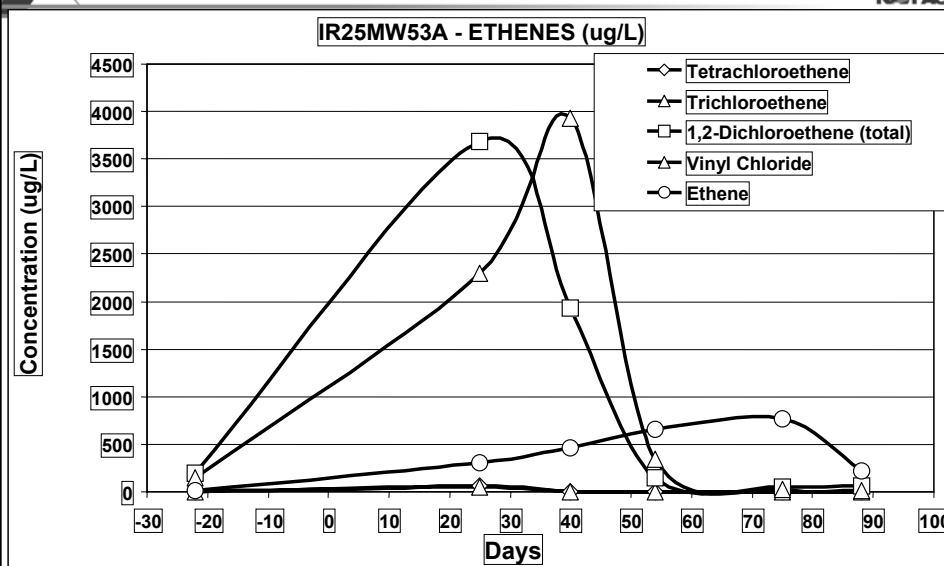
Groundwater Analytical Results March 25 to July 12, 2004



15

Hunters Point Shipyard/July, 2004 BCT Meeting

Groundwater Analytical Results March 25 to July 12, 2004



16

Hunters Point Shipyard/July, 2004 BCT Meeting

Questions?



Parcel A FOST

Hunters Point Shipyard

RAB Meeting

July 22, 2004

Overview



- Objectives
- Completed Building 322 Activities
- EPA inspection results
- Status of Parcel A FOST
- Path Forward

Objectives



- Document the evaluation of Building 322 for radiation impacts
- Work with EPA and DHS to release building site
- Submit Final FOST with Building 322 results
- Transfer Parcel A

Former Building 322



Completed Building 322 Activities



- Radiation survey of Building 322
 - Furniture, floor and building survey
 - Building demolition
 - Slab survey and removal
 - Footprint survey
- Inspection by EPA
- No radiation above background

Site after Building Demolished



EPA Inspection Results



- EPA field inspection performed June 30, 2004
- Two instruments used for evaluation
 - Gamma Scintillation Probe
 - Exploranium GR130 Mini Spectrometer
- Evaluated a nearby grassy area as a reference area
- Found similar levels of counts per minute in reference area and building 322 (16,700 cpm and 18,300 cpm)
- Gamma spectrum analysis found no evidence of fissionable products

EPA Inspection- Former Building 322 Site



- Concluded that there is no radiological contamination impacting the environment of Hunters Point Naval Shipyard due to activities previously conducted at the former Building 322.
- Further radiological investigation at this site is not warranted.
- Based on radiological issues the site of former Building 322 is eligible for release for unrestricted use.

Path Forward



- **Finalize Building 322 Survey Report following RASO review**
- **Regulatory review of Survey Report**
- **Obtain DHS release of Building 322**
- **Complete agency unresolved comments**
- **Prepare Draft Final FOST Revision 3 (will be virtually identical to Final FOST)**
- **30 day comment period**

**HPS Membership/Bylaws & Community Outreach (MBCO)
Restoration Advisory Board (RAB) Subcommittee
Meeting Minutes for 14 July 2004
6:30-8:00 p.m.
Anna Waden Library**

The MBCO RAB subcommittee meeting on July 14, 2004 was called to order by Melita Rines, RAB member and Subcommittee Leader. The subcommittee meeting took place at the Anna Waden Library from 6:30 to 8:00 p.m.

MBCO Subcommittee attendees: RAB Members- Lynne Brown, Lea Loizos ,Keith Tisdell, Chris Hanif SFPD - Capt. Jim Dudley, Capt. Al Pardini , NAVY - Keith Forman (BRAC, RAB Co-chair), Pat Brooks (Lead RPM), Ralph Pierce (RPM) - SFRA - Nicole Franklin, EPA - Jackie Lane, SulTech - Carolyn Hunter

SFRA UPDATE

Ms. N. Franklin provided the subcommittee with an update on the SFRA lease negotiations at Building 606. Currently the Navy and the SFRA are working out the master lease for the base, which is between the City of San Francisco and the Navy. There is a sublease for Building 606 between the City of San Francisco and the SFPD. SFRA is currently working with the Navy to renew their master lease. Prior to getting the master lease renewed, the Navy is researching the market value for this type of property in the City of San Francisco. Once the market value research has been completed, SFRA and the Navy will meet and negotiate the master lease.

Ms. N. Franklin stated that once it is time to negotiate the sublease between SFRA and SFPD, it will not include the community outreach portion of the previous lease. Until the new leases are negotiated, the property will be rented on a month to month basis.

Capt. Pardini stated that once the new sublease term sheet is available, SFPD will review it and decide if they would like to continue to rent Building 606. Once SFPD agrees with the term sheet, they will present it to the MBCO subcommittee for review.

SFPD UPDATE

Mr. Tisdell stated that on May 13, 2004 at 4:20 p.m. he spotted SFPD on motor cycles driving around Parcel A. During the May 12, 2004 MBCO subcommittee meeting SFPD representatives confirmed that there would not be any police activity on Parcel A. Mr. Tisdell stated that during a previous RAB meeting, Captain Martelli (SFPD) clearly stated that SFPD activities would cease and desist at Parcel A. Mr. Tisdell requested an update from SFPD representatives on why there was activity on Parcel A. Mr. Forman stated that after the police activity on Parcel A on May 13, 2004 he received multiple telephone calls from the community requesting additional information. Mr. Forman made multiple telephone calls to SFRA representatives to receive an update on the activity in order to report back to the concerned citizens.

Capt. Dudley requested that if another incident occurs on Parcel A, that the community witness contact him immediately so that he can send someone out to the site to investigate. Capt. Dudley stated that he understood that the SFPD agreed not to

conduct any activities or "game" playing on Parcel A. It has not been clear to SFPD that the RAB is requesting a halt of all activity including driving through the area. Capt. Dudley stated that SFPD off road training such as Mr. Tisdell witnessed on May 13, 2004 is done all over the City of San Francisco. Ms. Rines stated that the RAB is concerned with the health and safety of the Community & SFPD because they could potentially be disturbing contamination by off roading. Ms. Franklin stated that once Parcel A transfers to the City of San Francisco, all of the police activity will cease.

Ms. N. Franklin and Capt. Dudley agreed to go back to SFRA and SFPD to gain clarification on the agreement made regarding activity on Parcel A. During the next MBCO subcommittee SFRA will report back their findings and future steps SFPD will take in order to address the communities concern.

Mr. Brown requested that SFPD look into ways to curb their speeding down Evans Street and Innes Avenue, which both lead in and out of HPS. It is very dangerous for community members to cross the street due to the speeding SFPD cars and motorcycles. Ms. N. Franklin suggested that a side meeting be scheduled to discuss slowing down traffic on Innes Avenue. Ms. N. Franklin will coordinate a meeting with Don Capobres (SFRA) and invite interested community members to attend. Ms. Rines stated that the homeowners association she belongs to has been looking into installing a flashing warning light on Innes Avenue to slow down traffic. Capt. Dudley suggested that the RAB or the homeowners association contact the Department of Traffic to discuss the speeding issue.

RESPONSE TO COMMENTS SUBMITTED DURING THE JUNE 2004 MBCO SUBCOMMITTEE MEETING

The MBCO subcommittee reviewed the comments submitted during the June 2004 meeting by Marie Franklin (RAB member). The MBCO subcommittee agreed to discuss each comment and provide a response to Ms. M. Franklin concerns in the July 14, 2004 meeting minutes. For reference, a copy of Ms. M. Franklin's comments is provided as an attachment to the meeting minutes.

Mission Statement: A general mission statement developed by the Department of Defense (DoD) as guidance for RAB's is located on the DoD website

<http://www.dtic.mil/envirodod/Policies/PDRAB.htm>. If the HPS RAB is interested in refining their mission statement, the DoD website will assist them in preparing it.

Alternates: Ms. M. Franklin's concern has been addressed in the HPS RAB Bylaws. RAB alternates are allowed to attend and participate during meetings. An alternate's participation in a meeting does not count towards a RAB members attendance.

Disciplinary Measures: No disciplinary measures for attendance purposes will be taken against RAB members.

Priority Membership: All RAB members are equal in membership and voting.

RAB Meeting Absences: Even if a RAB member has an alternate participate during a meeting, it does not count toward their attendance. Absence due to illness will not be counted differently. If a RAB member misses four meetings in a twelve month period (to be outlined in the new bylaws) , they must reapply for reinstatement to the board.

Sign in sheet: It is completed during the meeting. The RAB facilitator will make sure to remind members to sign in at each meeting. But this is still the responsibility of the RAB member.

Subcommittee Meeting: The MBCO subcommittee suggested that if there is not a topic of discussion during the month, they will not meet until it is necessary. Subcommittees will alternate meetings during slow times. This decision will be made by the subcommittee chair.

Community Comment: The MBCO subcommittee will make a motion during the July 22, 2004 RAB meeting to provide the community a separate comment section of the agenda. The MBCO subcommittee discussed how questions are posed during the RAB meetings. The subcommittee agreed that attendees will not pose multiple part questions in order to give all everyone an opportunity to participate during the RAB meetings. The MBCO subcommittee suggested that if there is interest shown by RAB members to have more in depth questions answered on a particular topic, then that presentation will be taken to a subcommittee level.

Technical Assistance for Public Participation (TAPP) Grants: There are two types of grants that a RAB can apply for. The TAPP issued by the Navy and the Technical Assistance Grant (TAG) is given through EPA. Currently the HPS RAB has hired Clifton Davis and Mike Boyd through EPA's TAG process. The TAG grantees were announced during the June 2004 RAB meeting. Mr. Brown stated that the Community First Coalition (CFC) is in charge of the TAG. Ms. Loizos stated that she emailed the CFC to let them know that if they need some help or are interested in attending a subcommittee meeting that she would assist them.

Meeting Location: The MBCO subcommittee recommended that meeting in the same location on a monthly basis is important to maintain high RAB attendance. Mr. Forman stated that if the RAB is interested in changing the location of the RAB meeting that the Navy will look into it. Ms. Rines stated that some of the community members are concerned about meeting at HPS in Dago Mary's due to fear of contamination from the Shipyard. Mr. Forman stated that the Navy will have to look into moving the RAB meeting to a different location once Parcel A is transferred. Ms. Loizos volunteered the Window on the Shipyard as a potential RAB meeting location.

AMENDMENTS TO BYLAWS

Ms. Rines stated that the MBCO subcommittee has been revising the language in the HPS RAB Bylaws in order to clarify the number of meetings that can be missed during a 12 month period. The term calendar year has caused confusion with the RAB members. Once the revised text in the bylaws has been passed by the RAB at the August 2004 meeting, all members will have their previously missed meetings removed from their record and everyone will receive a clean attendance slate in September 2004. This will be done to facilitate the application of the new bylaws to all RAB members equally.

ADDITIONAL AGENDA ITEMS

RAB Application

Ms. Rines agreed to cover the new application for the RAB at the August MBCO meeting.

Number of HPS RAB Meetings Held

Mr. Forman stated that the Navy is compiling a list of RAB meetings that have been held at HPS. At the next milestone RAB meeting, the Navy plans to invite the Mayor of San Francisco to attend.

Zero Valent Iron (ZVI) Injection Field Trip

Ms. Loizos stated that she has been working with Ryan Ahlersmeyer (Navy RPM) to conduct a ZVI field trip. During the July 22, 2004 RAB meeting Ms. Loizos will announce the date of the ZVI field trip.

Next Meeting

The next MBCO Subcommittee meeting will be held Wednesday, August 11, 2004 from 6:30 – 8:00 p.m. at the Anna Waden Library.

August MBCO Agenda Items

- SFPD Update
- New RAB application update
- BEEP funding

MB & CO SUBCOMMITTEE JULY 2004 ACTION ITEMS

1. Once SFPD agrees with the term sheet for the sublease of Building 606, they will present it to the MBCO subcommittee for review.
2. Community members who witness police activity on Parcel A should contact Capt. Dudley as soon as possible at (415) 671-3150 so that he can send someone out to the site to investigate.
3. Ms. N. Franklin and Capt. Dudley agreed to go back to SFRA and SFPD to gain clarification on the agreement made regarding activity on Parcel A. During the next MBCO subcommittee meeting SFRA will report back their findings and future steps SFPD will take in order to address the communities concern about activity on Parcel A.
4. Ms. N. Franklin will coordinate a meeting to discuss speeding issues on Innes Avenue with Mr. Capobres and invite interested community members to attend.
5. The MBCO subcommittee will make a motion during the July 22, 2004 RAB meeting to provide the community a separate comment section on the RAB agenda.
6. Ms. Rines agreed to cover the new application for the RAB at the August MBCO meeting.
7. During the July 22, 2004 RAB meeting Ms. Loizos will announce the date of the ZVI field trip.

Lowman Radiological Subcommittee

Abbreviated minutes - June 23, 2004

The meeting was called to order at 4:15pm. The following attendees signed in: Willie Ratcliff - Host, Ahimsa Sumchai - chair, Lynne Brown - RAB community co-chair, Francisco DaCosta, Christine Siataga, Gaynorann Siataga, Edward Wiesick, Cindy Vincent, Gerry Vincent, Pat Brooks, Keith Forman, Ralph Pearce, Maurice Campbell.

The subcommittee acknowledged the presence of Gaynorann Siataga a youth candidate for the San Francisco Board of Education and Mr. Edward Wiesick a senior retired gardner who worked at the Shipyard for many years.

Mr. Gerald Vincent of the U.S. Army Corp of Engineers was welcomed and began the presentation describing a "FUDs" as a piece of property owned, leased or operated by the Department of Defense and turned over to civilian use before October of 1986. There are over 9,800 FUDs nationwide and the environmental investigation and remediation of these properties fall under seperate jurisdiction in the DoD. At Hunters Point there exist properties whose clean-up and reuse fall under the BRAC (Base Realignment and Closure) process and the FUDs (formerly utilized defense) programs.

Francisco DaCosta asked Mr. Vincent why he had not presented to the HPS RAB. Mr. Vincent replied that the Restoration Advisory Board for the shipyard is a body that falls under the jurisdiction of the BRAC program. Mr. DaCosta stated that the Navy has not been "forthcoming" about the extent of environmental cleanup at the Shipyard and that the recently released HRA has proved to be an "eye opener" with regard to the extent of radiological contamination on the base. He shared with attendees as current map of Environmental Cleanup sites at HPS.

A focused discussion centered on FUDs 815, 820, 830 and 831. The history and remediation of Building 815 has been a major topic of concern and Mr. Vincent gave a brief background of the events leading up to the DoD's release of the HPS 800 series FUDs to the GSA. Dr. Sumchai described Building 815 as an eight story structure including a basement that housed support services and five floors with laboratories and machine shops. RASO has designated it for a full scoping survey. Mr. Vincent expressed disagreement with this decision and reminded the committee that Building 815 had undergone numerous investigations and decontaminations and that there successive studies have been driven by dynamic changes in release criteria for radiation impacted property. He stated that the most recent release criteria change was in 1974 and that the last survey conducted in 815 was in 1985. Edward Wiesick provided new information that Building 815 was used for Planning and Estimating for Navy Civil Service for years after NRDL disestablishment.

Dr. Sumchai stated that the RASO decision may have been factored by the following facts. Standards for radiation cleanup in the state of California are being challenged in Superior court, additionally, the DHS letter signing off on Building 815 is not signed and

dated, the San Francisco Department of Public Health has remained in communication with Mr. Lowpensky - the owner - about the status of two 15,000 gallon holding tanks that were used for holding low level radiation waste water. Mr. Vincent stated they were concrete vaults set in the parking lot of Building 815 for storm water runoff. Maurice Campbell clarified that they were used for sampling of radioactive waste from the NRDL laboratories and if the effluent concentrations were below release criteria it was discharged into the sewer system. Sumchai also stated that the basewide impact of the storm water and sanitary sewer system brings into sharper focus concerns about the status of drains and holding tanks for former NRDL laboratories and building 815 became the major laboratory and administration building for NRDL.

Lynne Brown asked "if you had 600 scientists working in this building and these were called decontamination tanks what was being decontaminated?" Mr. Vincent stated a more exact description of the tanks was, "holding tanks for decontamination water". He stated that if radioactive waste was detected that exceed release criteria it would have been shipped off site for disposal. Dr. Sumchai stated that the new focus on Building 815 is likely the result of the fact that for the first time the HRA acknowledges that low level NORM and NARM were being released into the drains and sewer systems of NRDL laboratories by post-WWII scientists. Mr. Forman asked that Amy Brownell clarify the status of correspondence between DPH, Mr. Lowpensky and Mr. Vincent regarding the tanks. Mr. Brown also raised continued concerns about cooling towers located on the roof of Building 815 that were removed by the owner prior to investigation.

The conversation shifted to the questions raised by photos Maurice Campbell has sent to RASO and RAB members which suggest the presence of additional D series buildings in the off-base community area occupied by Mariners Villages residences. The photo's suggest the possibility of an NRDL laboratory at this site. Mr. Forman stated RASO has not been able to confirm this possibility because the photo is not dated. Mr. Campbell stated he provided the date and confirmed that the photos came from USGS. It was clarified for the committee members that D series buildings 19-21 were used for supply, administration and payroll. The presence of a building used for a laboratory in a residential area is of concern because of the possibility that low level radioactive waste may have entered the basewide storm water and sewer system. Mr. Forman asked that Mr. Campbell forward information of this nature to RASO as well as to Ralph Pearce, the lead Radiological RPM for the Shipyard. It was also emphasized that Mr. Vincent be kept in the loop because these sites are FUDs.

Mr. Forman gave an update on the use of Quonset huts that were used to house staff and people temporarily in the post world war II era. The additional D series buildings were probably Quonset huts. The huts were also used for visiting staff, scientists and officers. They came in 3 sizes and were expandable. Mr. Brown stated D series buildings occupied the IR-07 and IR-18 former submarine base region of Parcel B. Mr. Campbell provided the valuable insight that Building 101 at the Shipyard houses a layout map of the shipyard that can be used for historical correlary. Mr. Forman cautioned that shipyard maps are not often meant to be "all inclusive" and cannot be depended on to verify the identity and function of buildings.

Mr. Wiesick recalled that sheep and goats were housed on the shipyard in the region of the 800 buildings for animal experiments. Mr. Forman verified this as fact. Mr. Campbell stated that the historical archives in San Bruno confirm that thousands of pages of NRDL documents have been destroyed. Mr. Forman acknowledged that it was common practice to destroy non classified materials. Mr. DaCosta expressed concern about the lack of clear information about the investigation and remediation of off-base buildings in the community. He also referenced reports by community residents that "clouds" of smoke or vapor had been noted emanating from Building 815 in the past.

Dr. Sumchai suggested that Mr. Vincent formally address the RAB on the FUDs in August, along with Laurie Lowman. Mr. Vincent stated he was scheduled to be in Roswell, New Mexico at that time. The offer to have Mr. Vincent present to the RAB was left open to discussion. The remainder of the agenda focused on FUDs 820, 830 and 831. Additionally, Sumchai asked the Navy to clarify the Parcel F underwater impacted status of the births surrounding the Gun Mole Pier where Operations Crossroads activities were conducted.